

## Claims

- [c1] What is claimed is:
- 1.A method for generating pulse dialing signals to a public switched telephone network (PSTN) by a VoIP (Voice over Internet Protocol) modem having a relay for selectively connecting a telephone set with the PSTN or with a subscriber line interface circuit (SLIC) of the VoIP modem, the method comprising:
- switching the relay to connect the telephone set with the PSTN and with the SLIC alternatively for a number of cycle(s) equal to a digit of a dialed telephone number.
- [c2] 2.A pulse dialing system for a VoIP modem, comprising:
- a subscriber line interface circuit (SLIC) for interfacing analog telephone signals to digital signals;
- a relay for selectively connecting a telephone set with a public switched telephone network (PSTN) or with the SLIC; and
- a control means, coupled to the SLIC and to the relay, for receiving a digit of a dialed telephone number and for controlling the relay to connect the telephone set with the PSTN and with the SLIC alternatively for a number of cycle(s) equal to the digit of the dialed telephone number so as to generate pulse dialing signals to the PSTN.
- [c3] 3.The system of claim 2, wherein said control means is a digital signal processor.
- [c4] 4.A method for making a pulse dialing telephone call with a public switched telephone network (PSTN) by a VoIP (Voice over Internet Protocol) modem including a control means and a relay for selectively connecting a telephone set with the PSTN or with a subscriber line interface circuit (SLIC) of the VoIP modem, the method comprising:
- receiving a dialed telephone number in the control means; and
- controlling the relay by the control means to connect the telephone set with the PSTN and with the SLIC alternatively for a number of cycle(s) equal to each dialed digit of the telephone number so as to generate pulse dialing signals to the PSTN.